

- Q.20 Explain hot piercing process with neat sketch.  
Q.21 Write any six uses of smoothing plane.  
Q.22 List any five operations performed on drilling machine.

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Explain with neat sketch of Injection Moulding Machine. Discuss the disadvantages.  
Q.24 Explain with neat sketches the different tools used in carpentry sections.  
Q.25 Explain :  
i) Types of Safety  
ii) General safety precautions while working in a workshop.  
iii) Safety precautions while working with different hand tools.

No. of Printed Pages : 4  
Roll No. ....

222017

### 1st Year / Advance Diploma in Tool and Die Making

### Subject : Workshop Technology - 1

Time : 3 Hrs.

M.M. : 60

### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 The temperature at which new grains are formed in metal called:  
a) Lower critical temperature  
b) Upper critical temperature  
c) Eutectic temperature  
d) Recrystallisation temperature
- Q.2 The temperature of oxy-hydrogen flame is \_\_\_\_\_ oxy-acetylene flame.  
a) Same as                      b) Less than  
c) More than                    d) None of these
- Q.3 The fullers are used:  
a) Finishing flat surfaces  
b) Necking down piece of work  
c) Punch a hole  
d) Finish punched hole

- Q.4 Property of sand due to which it evolves great amount of steam and other gases called
- a) Collapsibility            b) Permeability  
c) Cohesiveness            d) Adhesiveness
- Q.5 Galvanizing is a
- a) Zinc diffusion process  
b) Process of coating zinc by hot dipping  
c) Process used for making thin phosphate coating on steel  
d) None of these
- Q.6 A zinc diffusion process is called
- a) Galvanizing            b) Anodizing  
c) Parkerizing            d) Sherardizing

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 The brass and bronze are welded by \_\_\_\_\_ flame.
- a) Carburizing            b) Neutral  
c) Oxidizing            d) All of these
- Q.8 Cold working of metal increases
- a) Tensile strenght            b) Yield strength  
c) Hardness            d) All of these
- Q.9 For arc welding :
- a) AC with high frequency used  
b) AC with low frequency used  
c) DC is used  
d) Any one of these

(2)

222017

- Q.10 A basic hole is one whose
- a) Lower deviation is zero  
b) Upper deviation is zero  
c) Lower and upper deviations are zero  
d) None of these
- Q.11 The algebraic difference between minimum limit and basic size called
- a) Actual Deviation  
b) Upper Deviation  
c) Lower Deviation  
d) Fundamental Deviation
- Q.12 Flux used in brazing is:
- a) Zinc chloride  
b) Ammonium chloride  
c) Resin plus alcohol  
d) Borax

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 State function of flux in arc welding.
- Q.14 Classify welding processes.
- Q.15 Explain coding of electrode.
- Q.16 Explain types of electrode.
- Q.17 Explain thread rolling process.
- Q.18 Explain any four press operations.
- Q.19 Describe cold heading process with neat sketch.

(3)

222017